

WHAT IS CLAIMED IS:

1. An electric part to be connected to a main apparatus, comprising:

a case member having first and second side walls;

5 an electric circuit board placed inside said case member;

a terminal board including a terminal to be connected to said main apparatus and placed outside said first side wall;

10 a wiring unit for connecting said electric circuit board and said terminal board through a slit opening formed in said first side wall; and

a shield plate,

15 wherein said shield plate couples said first and second side walls.

2. The electric part according to claim 1, wherein said shield plate and said terminal board are fixed to said first side wall by a common fixing member.

3. The electric part according to claim 2, wherein
20 said fixing member is conductive, and a ground electrode of said terminal board and said shield plate are electrically connected by said fixing member.

4. The electric part according to claim 1, wherein
25 said slit opening has a shape to receive at least one of said electric circuit board and said terminal board therethrough.

5. The electric part according to claim 4, wherein

said electric circuit board, said terminal board, and said wiring unit are connected to each other before being attached to said case member.

6. The electric part according to claim 1, wherein
5 said slit opening has a shape to receive said terminal board therethrough, said electric circuit board is attached to said case member after said electric circuit board, said terminal board, and said wiring unit are connected to each other, and thereafter said
10 terminal board is extracted to the outside of said first side wall through said slit opening and attached to the outside of said first side wall.

7. The electric part according to claim 1, wherein said first and second side walls oppose each other.

15 8. The electric part according to claim 1, wherein said case member has an assembly opening used when an internal structure is assembled, and said electric part further comprises a cover member for closing said assembly opening.

20 9. The electric part according to claim 8, wherein said cover member comprises an engaging portion which engages with said slit opening to fix said cover member to said case member, and no unnecessary ambient light enters into said electric part when said engaging
25 portion engages with said slit opening to fix said cover member to said case member.

10. The electric part according to claim 9, wherein

no ambient light enters through said slit opening when said engaging portion engages with said slit opening to fix said cover member to said case member.

11. The electric part according to claim 1, wherein
5 said electric part is used as a scanner head.

12. The electric part according to claim 1, wherein said main apparatus is capable of mounting a scanner head instead of a printhead, and said electric part is used as said scanner head.

10 13. The electric part according to claim 1, further comprising:

an image sensing device; and

an optical system for forming an image of an original on said image sensing device.

15 14. The electric part according to claim 1, further comprising:

an image sensing device;

a first cylindrical member holding a first lens;

a second cylindrical member holding a second lens

20 having the same optical axis as said first lens;

a third cylindrical member for determining the position of said image sensing device in the direction of said optical axis;

a first adjusting mechanism for continuously
25 adjusting and fixing the position of said second cylindrical member with respect to said first cylindrical member along said optical axis; and

a second adjusting mechanism for stepwise adjusting and fixing the position of said third cylindrical member with respect to said first cylindrical member along said optical axis,

5 wherein an amount of adjustment by said second adjusting mechanism is determined in accordance with a stepwise selectable pivoting angle of said third cylindrical member around said optical axis, and said first and second adjusting mechanisms are operable from
10 outside said case member.

15. The electric part according to claim 14, further comprising a third adjusting mechanism for fixing said image sensing device to said third cylindrical member by pivoting said image sensing device on said optical
15 axis.

16. An electric part to be connected to a main apparatus, comprising:

20 a case member having a slit opening and an assembly opening used when an internal structure is assembled;

 an electric circuit board placed inside said case member;

25 a terminal board including a terminal to be connected to said main apparatus and placed outside a side wall of said case member;

 a wiring unit for connecting said electric circuit board and said terminal board through a slit

opening formed in said side wall; and

a cover member for closing said assembly opening,

wherein said cover member comprises an engaging portion which engages with said slit opening to fix

5 said cover member to said case member, and no unnecessary ambient light enters into said case member through said slit opening when said engaging portion engages with said slit opening to fix said cover member to said case member.

10 17. The electric part according to claim 16, wherein said electric part is used as a scanner head.

18. The electric part according to claim 16, wherein said main apparatus is capable of mounting a scanner head instead of a printhead, and said electric part is
15 used as said scanner head.

19. The electric part according to claim 16, further comprising:

an image sensing device; and

20 an optical system for forming an image of an original on said image sensing device.

20. An optical part for forming an image on an image sensing device, comprising:

a first cylindrical member holding a first lens;

25 a second cylindrical member holding a second lens having the same optical axis as said first lens;

a third cylindrical member for determining the position of said image sensing device in the direction

of said optical axis;

an externally operable first adjusting mechanism
for continuously adjusting and fixing the position of
said second cylindrical member with respect to said
5 first cylindrical member along said optical axis; and

an externally operable second adjusting mechanism
for stepwise adjusting and fixing the position of said
third cylindrical member with respect to said first
cylindrical member along said optical axis,

10 wherein an amount of adjustment by said second
adjusting mechanism is determined in accordance with a
stepwise selectable pivoting angle of said third
cylindrical member around said optical axis.

21. The optical part according to claim 20, further
15 comprising a third adjusting mechanism for fixing said
image sensing device to said third cylindrical member
by pivoting said image sensing device on said optical
axis.

22. The optical part according to claim 20, further
20 comprising:

an electric circuit board for controlling said
image sensing device;

a connecting portion for connecting said electric
circuit board to an external electric circuit; and

25 a case member for accommodating said components,
wherein said optical part functions as a scanner
head.

23. The optical part according to claim 22, wherein said optical part is used in an apparatus capable of mounting a scanner head instead of a printhead.

24. A processing apparatus comprising:

5 a main apparatus; and
an electric part capable of being attached to and detached from said main apparatus,

wherein said electric part comprises:

a case member having first and second side walls;
10 an electric circuit board placed inside said case member;

a terminal board including a terminal to be connected to said main apparatus and placed outside said first side wall;

15 a wiring unit for connecting said electric circuit board and said terminal board through a slit opening formed in said first side wall; and

a shield plate,

20 said shield plate couples said first and second side walls, and

said main apparatus communicates with said electric part via said terminal board and executes predetermined processing by using said electric part.

25. A processing apparatus comprising:

25 a main apparatus; and
an electric part capable of being attached to and detached from said main apparatus,

wherein said electric part comprises:

a case member having a slit opening and an assembly opening used when an internal structure is assembled;

5 an electric circuit board placed inside said case member;

a terminal board including a terminal to be connected to said main apparatus and placed outside a side wall of said case member;

10 a wiring unit for connecting said electric circuit board and said terminal board through a slit opening formed in said side wall; and

a cover member for closing said assembly opening, said cover member comprises an engaging portion

15 which engages with said slit opening to fix said cover member to said case member, and no unnecessary ambient light enters into said case member through said slit opening when said engaging portion engages with said slit opening to fix said cover member to said case

20 member, and

said main apparatus communicates with said electric part via said terminal board and executes predetermined processing by using said electric part.

26. A processing apparatus comprising:

25 a main apparatus; and

an optical part capable of being attached to and detached from said main apparatus,

wherein said optical part comprises:

a first cylindrical member holding a first lens;

a second cylindrical member holding a second lens
having the same optical axis as said first lens;

5 a third cylindrical member for determining the
position of said image sensing device in the direction
of said optical axis;

an externally operable first adjusting mechanism
for continuously adjusting and fixing the position of
10 said second cylindrical member with respect to said
first cylindrical member along said optical axis; and

an externally operable second adjusting mechanism
for stepwise adjusting and fixing the position of said
third cylindrical member with respect to said first
15 cylindrical member along said optical axis,

an amount of adjustment by said second adjusting
mechanism is determined in accordance with a stepwise
selectable pivoting angle of said third cylindrical
member around said optical axis, and

20 said main apparatus processes an image signal
provided by said image sensing device of said optical
part.